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1. A data input/output (I/O) system connected to an address and a data bus, comprising:

a first register that stores data from the data bus in response to an access signal supplied from the address bus; and

a memory that receives the data stored in the first register and inputs and outputs data from and to the data bus using the data as an address signal.

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2. The data I/O system of claim 1, further comprising an address generation circuit that generates an address signal accessible by the memory and supplies the address signal to one of the memory and the first register.

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"(p" ")" (p");

3. The data I/O system of claim 2, further comprising a second register connected between the memory and the data bus for storing data from one of the data bus and the memory in response to the access signal.

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4. The data I/O system of claim 3, further comprising a digital-to-analog D/A) converter that receives data from the second register and converts the data to an analog signal.

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5. The data I/O system of claim 4, wherein the address generation circuit generates a circulating address signal, and the D/A converter generates the analog signal having a periodic waveform by repetitively receiving data from the second register.

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6. The data I/O system of claim 2, wherein the address generation circuit includes:

a counter that counts clock signal pulses and generates the

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address signal, which corresponds to t he count value;

a control register that stores and end address of the data stored in the memory; and

a comparator connected to the counter and the control register to compare the end address and the address signal and supply a signal for resetting the count value of the counter when the end address and the address signal match.

- 7. The data I/O system of claim 6, wherein the counter is an up-and-down counter that performs one of an incremental count operation and a decremental count operation in response to a switching signal, and the up-and-down counter resets the count value in response to a clear signal in the incremental count operation and sets the end address to the initial value in the decremental count operation when the count value has underflowed.
  - 8. The data I/O system of claim 1, further comprising: a decoder connected to the address bus to generate a control signal in response to the access signal; and

a switch circuit connected between the memory and the data bus and being conductive in response to the control signal.

9. A data I/O system, comprising:

an analog-th-digital (A/D) converter that converts an analog signal to a digital signal;

a memory connected to the A/D converter that stores the digital signal;

a register connected to the memory that stores an address signal; and

an address generation circuit connected to the register that generates the address signal and supplies the address signal to the register.

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## 10. A data I/O system, comprising:

a first function block including,

a first register that stores a first address signal, a first memory that receives the first address signal stored in the first register and inputs and outputs data in accordance with the first address signal,

a first address generation circuit that generates the first address signal successively and supplies the first address signal to the first register, and

a digital-to-analog (D/A) converter that receives data from the first memory and converts the data to an analog signal;

a second function block connected to the first function block, including,

an analog-to-digital (A/D) converter that converts the analog signal to a digital signal,

a second memory that stores the digital signal, a second register connected to the second memory that stores a second address signal, and

a second address generation circuit connected to the second register that generates the second address signal successively and supplies the second address signal to the second register; and

a processor that receives the digital signal from the second 25 memory, corrects the data stored in the first memory, and supplies the corrected data to the first memory.

11. A method for inputting and outputting data, comprising the steps of:

storing an address signal from an address bus in a register; writing data to a storage device in accordance with the address signal stored in the register;

storing a circulating address signal in the register; and reading data from the storage device in accordance with the circulating address signal stored in the register.

